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Vibrational subharmonic and superharmonic resonances

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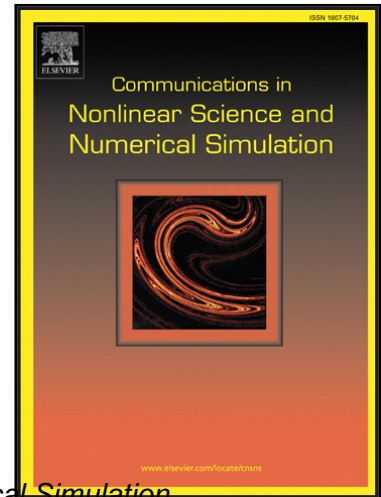
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Highlights

- New vibrational resonance phenomena named vibrational subharmonic resonance and vibrational superharmonic resonance are reported.
- The vibrational resonance occurs at the subharmonic or superharmonic frequency is different from the traditional vibrational resonance.
- The occurrence of the vibrational subharmonic resonance and vibrational superharmonic resonance depends on the system parameter and the high-frequency perturbation.

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